Administrator's Guide

Microsoft Windows CE .NET Image for HP Compaq Thin Clients

Image Refresh Versions 4.21 and 4.22

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This guide provides network administrators with basic instructions for configuring CE .NET-based thin clients.

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Microsoft Windows CE .NET Image for HP Compaq Thin Clients

Fourth Edition (October 2004)

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1
Introduction

The CE .NET-based terminal offers greater user flexibility than previous CE .NET products because it can be used from the Explorer shell (desktop), used strictly with the HP Connection Administrator, or further locked down into Kiosk mode.

This guide provides the network administrator with instructions for local and remote configuration of the CE .NET-based terminal and explains the various utilities used to accomplish this. Typically, a terminal is configured locally then used as a template for other terminals, which can then be configured via remote administration tools.

Server and application connections can be created through the HP Connection Window or the HP Connection Administrator. A connection created with one utility will also be available for editing and configuring in the other utility. Although you can create and edit connections with either utility, only HP Connection Administrator provides the functionality to create failover connection groups and set up user profiles. HP Connection Administrator is also used to determine the start mode and user interface for the terminal.

Chapters in this guide are specific to the desktop interface, the HP Connection Window utility, the HP Connection Administrator utility, and all the programs in the Control Panel.

Image Updates

HP provides periodic updates to the image for the HP Compaq t5300, t5500 and t5510 thin clients. Check the HP support site for important documentation that provides specific information for your image version. Support documentation can be found at

http://welcome.hp.com/country/us/en/support.html.

For the latest version of the HP Compaq t5300 and t5500 Thin Clients Microsoft Windows CE .NET Image, visit the HP website at http://h18004.www1.hp.com/support/files/thinclients/us/download/21495.html.

Setup Wizard

Microsoft Windows CE .NET HP Image Refresh version 4.21 and 4.22 include a Setup Wizard. Setup Wizard provides a simplified method to configure a thin client device. After you unbundle the image, the Setup Wizard will launch.

There is a 20 second delay after the Setup Wizard launches. If the administrator does not click **Next** before the timer expires, the default settings for the thin client will load.

Updates for Image Refresh Version 4.22

- Adds FTP upgrade to support .CAB and .ARP file types.
- Enhances ICA Publications to appear on desktop and Start menu.
- Adds user interface for Mass Storage Enable/Disable.
- Adds Global Keyboard Remote/Local switch in Keyboard Properties allowing Shortcut/Hotkeys be processed locally or remotely.
- Adds NK.BIN compression to allow more free space. ·
- Adds support for PS/2 mouse.
- Provides new versions of software: ICA 8.0 and TeemtalkCE 5.0

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The Desktop

The Microsoft Windows CE .NET image includes an Explorer shell (desktop) that resembles the typical Windows desktop features that should be familiar to most users of desktop computers. The desktop includes a taskbar, start menu, shortcut icons, and a background image.

The desktop has the typical desktop functionality. To change the display settings, right-click on the desktop and select **Properties** from the pop-up list. This brings up the Display Properties dialog where you can make changes to the background, appearance, resolution and color quality settings, and screen saver.

You can change the background image to one of your own preference, but the image must be a *.bmp* format.

If you change the screen resolution setting, you must reboot for the change to take effect. If you do not know if the screen resolution mode you selected is supported by your monitor, click the **Test** button on the Display Properties Settings tab.

You can also access the Display Properties dialog box through the Control Panel. Refer to the "Display" section in Chapter 5, "Control Panel" for more information on making changes to the display properties.

Taskbar

The taskbar includes a **Start** button, active task buttons (currently running programs), and a notification area (system tray).

By default, the taskbar is automatically hidden. You must move the pointer to the bottom of the screen to bring up the taskbar. If you want to change it so that the taskbar is always displayed, right-click on the taskbar, select **Properties**, and clear the **Auto hide** check box.

Start Menu

Open the Start menu by clicking the **Start** button on the taskbar. The Start menu includes a Programs list, a Settings list, a Run dialog, and a Shut Down dialog.

Icons

The icons on the desktop are shortcuts to programs that include HP Connections for Citrix Software, Internet Explorer, and RDP. You can also add icons for shortcuts to connections that have been created by right-clicking on the connection icon in the HP Connection Window utility and selecting **Send to Desktop**.

To launch a program or connection from the desktop, double-click the respective icon.

Due to Windows CE .NET architecture, properties for the programs on the desktop can not be changed from the desktop. In other words, if you right-click on a desktop icon and select **Properties**, the property values for that program can not be changed. Only property values for the shortcut can be changed.

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HP Connections for Citrix Software

The HP Connection for Citrix Software utility provides a quick and easy means of creating new Web, RDP, TEC, and ICA connections. You can also delete and edit connections, as well as create desktop shortcuts for connections.

Connections can also be established through the HP Connection Administrator utility. If a Connection is created in HP Connection Window, it will also appear in HP Connection Administrator. Likewise, if a Connection is created in HP Connection Administrator, it will also appear in HP Connection Window.

The HP Connection Window utility is launched when the terminal boots. It is also available in the Start menu (**Start > Programs > HP Connections for Citrix Software**) and as a shortcut icon on the desktop.

Creating a New Connection

The upper section of the window contains icons for the various types of connections you can make and an icon that launches HP Connection Administrator. The lower section contains all the connections that have been created.

To create a new connection, do one of the following:

- Double-click the icon in the top section of the window that corresponds with the type of connection you want to make. Follow the instructions in the Wizard or dialog that is displayed.
- From the **File** menu, highlight **New Connection** and select the type of connection you want to make. Follow the instructions in the Wizard or dialog that is displayed.

- Right-click in a blank area of the connections section, highlight **New Connection** and select the type of connection you want to make. Follow the instructions in the Wizard or dialog that is displayed.

CAUTION: Do not rename a connection once the connection has been established and assigned to Failover Connection Groups in HP Connection Administrator. Renaming a Connection effectively deletes the Connection from the Failover Connection Groups.

Deleting a Connection

To delete a connection that has already been established:

1. Right-click on the connection you want to delete and select **Delete Connection**; or, select the connection and press the **Delete** key on the keyboard. A Confirm Delete dialog is displayed.
2. Click the **Yes** button in the Confirm Delete dialog to delete the connection.

Deleting a connection through HP Connection Window also deletes the connection from HP Connection Adminstrator.

Editing a Connection

To edit a connection that has already been established:

1. Right-click on the connection you want to edit and select **Edit Connection**. A dialog or Wizard for the connection is displayed.
2. Reconfigure the connection as appropriate.

CAUTION: Do not rename a connection once the connection has been established and assigned to Failover Connection Groups in HP Connection Administrator. Renaming a Connection effectively deletes the Connection from the Failover Connection Groups.

Creating a Desktop Shortcut to a Connection

You can create a shortcut to a connection on the desktop through HP Connection Window (shortcuts can not be created through HP Connection Administrator).

To create a shortcut, right-click on the connection and select **Send to Desktop**. A shortcut to the connection appears on the desktop.

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HP Connection Administrator

The HP Connection Administrator allows you to manage server and application connections by setting up Web, RDP, TEC, and ICA Connections, assigning the Connections to Failover Connection Groups, and creating Profiles made up of users and their assigned Failover Connection Groups.

Connections can also be established through the HP Connection Window utility. If a Connection is created in HP Connection Window, it will also appear in HP Connection Administrator. Likewise, if a Connection is created in HP Connection Administrator, it will also appear in HP Connection Window.

Accessing HP Connection Administrator

HP Connection Administrator can be accessed through the Start menu (**Start > Programs > HP Connection Administrator**).

Main HP Connection Administrator Window

When HP Connection Administrator is launched, the first window displayed is the main HP Connection Administrator window. The main HP Connection Administrator window includes the following features.

- **Connection Group display:** The area on the left side of the window shows the Failover Connection Groups and their status as either "CONNECTED" or "NOT CONNECTED." The display only shows the Failover Connections assigned to the person who is currently logged on to the terminal.

- **Connect button:** Click this button to connect one of the Failover Connection Groups on the left side of the window. Highlight the Failover Connection Group then click the Connect button.
- **Control Panel button:** Click this button to access the Microsoft Windows Control Panel.
- **Delete button:** Select a connection in the connections display then click this button to delete the connection. Note that the connection is deleted from the list of connections available to all users, not just the user currently logged on to the terminal.
- **Add button:** Click this button to create a new connection and add it to the list of connections assigned to the user currently logged on to the terminal. The new connection will also be available for assignment to other users in the Advanced window.
- **Edit button:** Select a connection in the connections display then click this button to edit the connection.
- **Help button:** Click this button to access HP Connection Administrator's online help.
- **Advanced button:** Click this button to access the Advanced window, where you can configure and assign connections, set up user security accounts, and configure the user interface for the terminal.
- **Exit button:** Click this button to exit HP Connection Administrator.

Advanced Window

The Advanced window is accessed by clicking the **Advanced** button on the main HP Connection Administrator window. The Advanced window allows you to configure and assign connections, set up user security accounts, and configure the user interface for the terminal.

You must be logged in with Administrator permissions or with the "User may add, edit, or delete connections" permission to access the Advanced window.

The Advanced window includes two tabs, the Assign Connections tab and the Global UI tab.

Assign Connections Tab

- **User select list:** This drop-down list includes all users accounts associated with the system. Select a user from the list to configure connections for the user.
- **Security button:** Click this button to access the Security window, where you can create and configure user accounts.
- **Available connections list:** This panel on the left side of the window displays all available connections that can be assigned to users.
  - **Name:** This column displays the name of the connection assigned when the connection was created. The name cannot be altered from this column.
  - **Type:** This column displays the type of connection (Web, RDP, TEC, or ICA). The connection type cannot be altered from this column.
  - **Ping Type:** This column in the available connections list shows the server port to ping for the connection. Double-click on an entry in this column to allow "Smart Ping," which automatically assigns the port to ping based on the connection type, or you can manually enter the port to ping.
- **Delete button:** Select a connection in the available connections list then click this button to delete the connection from the list. Note that the connection will also be deleted from the lists of connections assigned to all users.
- **Add button:** Click this button to create a new connection and add it to the list of available connections.
- **Edit button:** Select a connection in the available connections list then click this button to edit the connection.
- **Connections for "selected user" list:** This panel on the right side of the window shows the connections assigned to the user displayed in the User field near the top of the window.
  - **Name:** This column displays the name of the connection assigned when the connection was created. The name can not be altered from this column.

- **Type:** This column displays the type of connection (Web, RDP, TEC, or ICA). The connection type can not be altered from this column.
- **Primary:** This column is used to designate a connection as either a primary or secondary connection. If Yes is displayed, the connection is a primary connection. If No is displayed, the connection is a secondary connection. Click on Yes or No to toggle between the two choices.
- **Auto:** This column is used to determine whether the system automatically connects when HP Communication Administrator starts up. If Yes is displayed, the system will automatically connect. If No is displayed, the system will not automatically connect. Click on Yes or No to toggle between the two choices.
- **Persistent:** This column is used to determine whether the system will attempt to reconnect when a connection fails. If Yes is displayed, the system will automatically attempt to reconnect. If No is displayed, the system will not attempt to reconnect. Click on Yes or No to toggle between the two choices.

- **Save button:** Click this button to save changes made to user connections on the Assign Connections tab and user interface settings on the Global UI tab.
- **Cancel button:** Click this button to cancel unsaved changes made to user connections on the Assign Connections tab and user interface settings on the Global UI tab, and exit the Advanced window.
- **OK button:** Click this button to save changes made to user connections on the Assign Connections tab and user interface settings on the Global UI tab, and exit the Advanced window.

Global UI Tab

The Global UI tab on the Advanced window has the following fields:

- **Auto start Connection Administrator when logging into Windows check box:** Select this check box if you want HP Connection Administrator to automatically start when the user logs into Microsoft Windows CE .NET.

- **Kiosk mode check box:** This check box is available as an option if the Auto start Connection Administrator when logging into Windows check box is selected. Check this box if you want the terminal to start up in Kiosk mode, which limits the terminal's functionality by hiding all icons on the desktop and all options in the Start menu other than Shut Down.
  - **Hide connection task bar check box:** This check box is available as an option if the Kiosk mode check box is selected. Select this check box to further lock down the terminal in Kiosk mode by hiding the task bar at the bottom of the desktop.
  - **Hide the User interface not allowing changes to connection settings check box:** This check box is available as an option if the Kiosk mode check box is selected. Select this check box to further lock down the terminal in Kiosk mode by hiding the user interface to connection settings.
- **Preview display:** The display on the right side of the Global UI tab provides a preview of how the user interface will appear when the various check boxes on the left side of the tab are selected.
- **Save button:** Click this button to save changes made to user connections on the Assign Connections tab and user interface settings on the Global UI tab.
- **Cancel button:** Click this button to cancel unsaved changes made to user connections on the Assign Connections tab and user interface settings on the Global UI tab, and exit the Advanced window.
- **OK button:** Click this button to save changes made to user connections on the Assign Connections tab and user interface settings on the Global UI tab, and exit the Advanced window.

Security Window

To access the Security window, click the Security button on the Advanced window's Assign Connections tab. The Security window allows you to create and modify user accounts. You can also access the Security window by double-clicking the Security icon in the Microsoft Windows CE .NET Control Panel.

The Security window includes two tabs, the System tab and the Users tab.

System Tab

The System tab on the Security window features the following fields:

- **System Statistics:** This section at the top of the tab displays system statistics, such as the number and type of users associated with the system.
- **Lock Screen check box:** Select this check box to allow the terminal to be locked through the Ctrl+Alt+Delete keyboard command.
- **Automatic Log On check box:** Select this check box to bypass the need for the user to enter a password when logging in to the system. Selecting this check box also activates the Single Button Log On check box and the Account drop-down list.
- **Single Button Log On check box:** Select this check box to enable the single button connect feature, which invokes a dialog box that requires the terminal operator to press a keyboard key or click the Logon button on the dialog box to log in.
- **Account drop-down list:** From this list, select the account the terminal operator will automatically log in with.
- **Enable Reset Hotkey check box:** Selecting this check box allows the terminal to be reset to factory defaults (registry and shortcuts) by pressing and holding the F9 key during boot.

Users Tab

The Users tab on the Security window is used to add, modify, and delete user accounts. The Users tab features the following fields:

- **Users display:** This panel displays all user accounts associated with the system and shows which accounts are enabled and which users are assigned administrator permissions.
- **Add button:** Click this button to create a new user account. In the Add New User window, enter the name of the user and the user's password on the Global UI tab, then grant the user the appropriate permissions on the Permissions tab.
- **Modify button:** Select a user from the list and click this button to modify the user's account.
- **Delete button:** Select a user from the list and click this button to delete the user's account.

Adding, Editing, and Deleting Connections in HP Connection Administrator Window

You can add, edit, or delete connections in the HP Administrator window or in the Advanced window. Adding a connection in the HP Connection Administrator window adds it to the list of connections assigned to the user currently logged on to the terminal. The new connection will also be available in the Advanced window for assignment to other users.

1. To add a connection in the HP Connection Administrator window, click the Add button.
2. In the Choose type dialog box, select the type of connection you want to create and click the OK button. A Wizard or setup dialog for the connection type is displayed.
3. Follow the on-screen instructions in the Wizard or setup dialog to add the connection to the user's connections list and to the list of available connections that can be assigned to other users in the Advanced window.
4. To edit the connection, select the connection and click the Edit button. Make the appropriate changes in the Wizard or setup dialog.
5. To delete the connection, select the connection and click the Delete button. The connection is deleted from all user connection lists, not just the user currently logged on to the terminal.

Do not rename a connection once the connection has been established and assigned to users. Renaming a connection effectively deletes the connection from all user accounts.

Adding, Editing, and Deleting Connections in the Advanced Window

You can add, edit, or delete connections in the HP Administrator window or in the Advanced window. However, the Advanced window allows you to further configure the connections and assign them to users

1. From the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, click the Add button below the list of available connections.
3. In the Choose type dialog box, select the type of connection you want to create and click the OK button. A Wizard or setup dialog for the connection type is displayed.
4. Follow the on-screen instructions in the Wizard or setup dialog to add the connection to the list of available connections.
5. To edit the connection, select the connection and click the Edit button. Make the appropriate changes in the Wizard or setup dialog.
6. To delete the connection, select the connection and click the Delete button. The connection is deleted from the list of available connections and from the connections lists for all users.

Do not rename a connection once the connection has been established and assigned to users. Renaming a connection effectively deletes the connection from all user accounts.

Assigning Connections to Users in the Advanced Window

Once a connection has been created, you can assign it to users in the Advanced window

1. In the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, select the appropriate user from the User drop-down list.
3. Double-click the connection in the list of available connections (left panel), or select the connection and click the > button. The connection is copied to the list of connections for the user (right panel).
4. Click the Save button to save the updated list of connections for the user

Designating Connections as Primary or Secondary

Connections can be designated as primary or secondary in the Advanced window. A primary connection is the first connection that will be attempted in a group of connections.

Secondary connections are connections within the group that will be attempted if the primary connection fails to connect. Secondary connections attempt to connect in the order in which they are listed.

There can be several primary connections and each primary connection can have several secondary connections associated with it.

1. In the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, select the appropriate user from the User drop-down list.
3. Select the connection in the user's connection list that you want to make a primary connection.

4. In the Primary column, if the entry for the selected connection is No, click on No to change it to Yes. (Clicking on Yes or No toggles between the two choices, thus designating the connection as primary or secondary.)
5. To assign a secondary connection to the primary connection, select the connection that you want to be secondary and click on Yes in the Primary column to change it to No. The connection becomes a secondary connection to the first primary connection directly above the secondary connection in the list.
6. To arrange the connections in the order that you want them to connect, select a connection and click the U button to move it up in the list or the D button to move it down in the list. Remember that secondary connections are always associated with the first primary connection above them in the list.
7. Click the Save button to save your changes.

Since each secondary connection must have an associated primary connection listed above the secondary connection, the connection at the very top of the list of connections must be a primary connection.

Making a Connection Automatically Connect when HP Connection Administrator is Launched

In the Advanced window, primary connections assigned to users can be set to automatically connect when HP Connection Administrator starts up

1. In the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, select the appropriate user from the User drop-down list.
3. Select the primary connection in the user's connection list that you want to automatically connect.
4. In the **Auto** column, if the entry for the selected connection is **No**, click on **No** to change it to **Yes**.
5. Click the Save button to save your changes.

Only primary connections can be set to automatically connect when HP Connection Administrator is launched.

Making a Connection Automatically Reconnect if it Disconnects

In the Advanced window, primary connections assigned to users can be set to automatically reconnect in the event that the connection disconnects

1. In the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, select the appropriate user from the **User** drop-down list.
3. Select the connection in the user's connection list that you want to make automatically reconnect.
4. In the **Persistent** column, if the entry for the selected connection is **No**, click on **No** to change it to **Yes**.
5. Click the Save button to save your changes.

Only primary connections can be set to automatically reconnect.

Assigning a Server Port to Ping before Connecting

The system automatically pings the server before connecting. You can designate which server port to ping by double-clicking an entry in the Ping Type column and selecting the "Smart Ping" feature, which automatically assigns a port to ping based on the connection type

1. In the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, double-click an entry in the Ping Type column. A Properties dialog box for the connection is displayed.

3. In the Properties dialog box for the connection, select the Use "Smart Ping" check box. The Port to open field is automatically assigned based on the connection type. If desired, you can change the entry in the Port to open field by typing over the default entry.
4. Click the OK button on the Properties dialog box. The Ping Type column in the Available connections list now shows which server port will be pinged.

Setting Time Constraints for a Valid Connection

You can adjust the number of seconds a connection must remain connected before it is considered a valid connection. If the connection is lost before the designated number of seconds, the system will move to the next connection.

The default value for a valid connection is 1 second.

1. In the HP Connection Administrator window, click the Advanced button to access the Advanced window.
2. On the Assign Connections tab of the Advanced window, double-click an entry in the Ping Type column. A Properties dialog box for the connection is displayed.
3. In the Properties dialog box for the connection, enter the appropriate number of seconds in the Valid after (secs) field.
4. Click the OK button on the Properties dialog box to save your changes.

Setting the Terminal to Kiosk Mode

Kiosk mode limits the terminal's functionality by hiding the desktop icons and limiting the Start menu to Shut Down only. There are also Kiosk mode options for hiding the task bar and hiding HP Connection Administrator.

To set a terminal to run in Kiosk mode, you must first create a connection. For more information, refer to “Adding, Editing, and Deleting Connections in HP Connection Administrator Window”in this chapter.

To set the terminal to run in Kiosk mode:

1. On the HP Connection Administrator window, click the Advanced button.
2. On the Advanced window, click the Global UI tab.
3. On the Global UI tab, select the Auto start Connection Administrator when logging into Windows check box. This makes the Kiosk mode option available.
4. Select the Kiosk mode check box. Two more check boxes become available as options.
5. If you want to hide the task bar, select the Hide connection task bar check box.
6. If you want to hide HP Connection Administrator, select the Hide the User interface not allowing changes to connection settings check box.
7. Create the necessary ICA or RDP connection.
8. Click the Save button to save your changes, or click the OK button to save your changes and exit the Advanced window.
9. Reboot the terminal for all changes to take effect.

Switching to a Different User

To switch to a different user when booting, perform the following steps:

1. Press the power button to start the system.

2. Enter Alt-F4 at the five-second log on display or Log on button.
3. Log on as the user of your choice.

Enabling Automatic Log On

In the Security window, you can enable automatic log on and bypass a user's password requirement when logging on to the system.

You can access the Security window by clicking the Security button in the Advanced window or by double-clicking the Security icon in the Microsoft Windows CE .NET Control Panel.

To enable automatic log on for a user:

1. On the HP Connection Administrator window, click the Advanced button.
2. On the Assign Connections tab of the Advanced window, click the Security button.
3. On the System tab of the Security window, select the Automatic Log On check box to bypass the need for the user to enter a password. This selection activates the Single Button Log On check box and the Account drop-down list.
4. If desired, select the optional Single Button Log On check box to enable the single button connect feature, which invokes a dialog box that requires the terminal operator to press a keyboard key or click the Logon button on the dialog box to log in.
5. In the Account field, select the account that the terminal operator will automatically log in with.
6. Click the OK button at the top of the Security window to save your changes

Creating a User Account

Terminal operator user accounts are set up in the Security window. This Users tab on the Security window lists all operator accounts and shows which accounts are set up with Administrator security permissions and which accounts are enabled.

There are three default accounts already set up (Administrator, Guest, and User) that can be used as templates for new accounts. The default Guest and User accounts can be modified as needed.

To create a new user account:

1. On the HP Connection Administrator window, click the Advanced button.
2. On the Assign Connections tab of the Advanced window, click the Security button.
3. On the Security window, select the Users tab and click the Add button. The Add New User dialog box is displayed.
4. On the Global UI tab, enter a name for the new user account in the Name field.
5. Enter a password for the new user in the Password field.
6. Enter the password again in the Confirm Password field.
7. Leave the Account is disabled check box clear unless you want to disable the account.
8. If you want to use the same permissions assigned to an account that was previously created, click the Set from Template button. The Set from Template dialog box is displayed
   a. Select the account type that you want to use as a template from the drop-down list of accounts in the Based on field.
   b. Click the OK button to apply the selected template and return to the Add New User dialog box.
   c. Click the OK button on the Add New User dialog box to save the settings and return to the Users tab on the Security window.
9. If you are not basing the permissions on a template and want to choose which permissions will be assigned to the new account, select the Permissions tab on the Add New User dialog box.

a. Select the items in the permissions list that you want to allow the user to access. If the user is an Administrator, select the User is Administrator check box to provide the user with access to all the listed items.

b. Click the OK button on the Add New User dialog box tab to save the settings and return to the Users tab on the Security window.

10. After completing all the above steps, click the OK button on the Security window.

5

Control Panel

This chapter provides an overview of all the programs in the Control Panel, and in some cases provides step-by-step instructions to perform certain tasks. Many of the programs are used for local administration, while others such as DHCP Options and SNMP are used for remote administration.

To open the Control Panel, do one of the following:

- From the desktop, select **Start > Settings > Control Panel**.
- From the HP Connection Window utility, double-click the **HP Connection Administrator** icon to launch HP Connection Administrator, then click the **Control Panel** button in HP Connection Administrator.

The LPD Control and Port Lock programs are only available to terminals equipped with a serial port.

Accessibility

The Accessibility dialog box is used to configure the terminal with 508 Accessibility features.

To open the Accessibility dialog box, double-click the **Accessibility** icon in the Control Panel.

Accessibility options are available for the keyboard, sound, display, and mouse.

- **Keyboard tab:** Allows you to apply **StickyKeys** if you want to use the **Shift**, **Ctrl**, and **Alt** keys by pressing one key at a time rather than holding them down while pressing other keys. You can also apply **ToggleKeys** if you want to hear tones when pressing the **Caps Lock**, **Num Lock**, and **Scroll Lock** keys.

- **Sound tab:** Used to apply **SoundSentry**, which causes Windows to generate visual warnings when the system makes a sound.
- **Display tab:** Used to apply **High Contrast**, which causes Windows to use colors and fonts designed for easy reading.
- **Mouse tab:** Used to apply **MouseKeys**, which allows you to control the pointer with the numeric keypad on the keyboard.
- **General tab:** Used to automatically turn off accessibility features after a set amount of idle time.

Certificates

The Certificates dialog box is used to import, store, and view security certificates.

Certificates and certificate authorities are used to ensure that an SSL connection is made to the intended secure server. Certificate information is exchanged between the terminal browser and the secure server when establishing a connection. If the certificate can be authenticated by a trusted certificate authority, the secure page will come up automatically.

A private key is also used to encrypt data over an SSL connection.

To open the Certificates dialog box, double-click the **Certificates** icon in the Control Panel.

To import a certificate or private key:

1. Select the type of certificate you would like to import from the drop-down list.
   - **Trusted Authorities** are certificates from authorities you can trust. The Windows CE .NET browser comes with a pre-defined list of trusted certificate authorities that include Thwarte, Entrust, GlobalSign, GTE, and others.
   - **My Certificates** are your personal digital certificates.
   - **Other Authorities** are intermediate certificate authorities.
2. Click the **Import** button. The Import Certificate or Key dialog box is displayed.

3. Select the location source of the certificate or key then click the **OK** button.
   - ❏ **From a File** brings up a dialog box that allows you to import a certificate or key from the network. Browse to the certificate or key and select it, or select the **Type** (Certificate or Private Key) and enter the name of the certificate or key in the **Name** field.
   - ❏ **From a Smart Card** allows you to import a certificate from a Smart Card. Make sure the Smart Card is inserted and select a **Reader** from the drop-down list.
   - ❏ **Friendly name** allows you to rename a certificate that you import.

Date/Time

The Date/Time Properties dialog box is used to set the date and current time, select the appropriate time zone, and enable automatic clock adjustment for daylight savings time for the terminal.

To open the Date/Time Properties dialog box, double-click the **Date/Time** icon in the Control Panel.

Select the appropriate date and time information and click the **Apply** button.

DHCP Options

The DHCP Options dialog is used to set the DHCP tags that identify the FTP location of the upgrade image.

Open the DHCP dialog box by double-clicking the **DHCP Options** icon in the Control Panel.

To change the FTP Option IDs, type over the current numbers in the **File Serve**r and **Path and Filename** fields (range is 128 through 254) and click **OK**. The values must match those set up on the DHCP server.

To reset the option IDs to the default values, click the **Reset to Defaults** button. The default for **File Server** is 161. The default for **Path and Filename** is 162.

The root path entry on the server should contain both the path and the filename.

Dialing

The Dialing Properties dialog box is used to select (or add) a dialing location and enter dial-up settings for the selected location. Local settings include the area code, county/region code, and tone or pulse dialing. You also have the option of disabling call waiting.

You can also set up dialing patterns for local, long distance, and international calls.

The dialing properties are used in conjunction with RDP, ICA, TEC, and VPN dial-up connections.

To open the Dialing Properties dialog box, double-click the **Dialing** icon in the Control Panel.

Select or add a “dialing from” location and enter the local settings for the location. Click **OK** after entering the information.

Display

The Display Properties dialog box is used to configure the monitor's background image, appearance scheme, screen resolution, color quality, refresh frequency, and screen saver.

You must reboot the terminal after changing any of the display properties for the changes to take effect.

You can change the background image to one of your preference, but the image must be a *.bmp* format.

To open the Display Properties dialog box, double-click the **Display** icon in the Control Panel.

You can also access the Display Properties dialog box by right-clicking on the desktop and selecting **Properties**.

The **Settings** tab includes a **Test** button that can be used to test the resolution and refresh settings.

The following table lists the available screen resolutions, color quality settings, and refresh frequencies. The default is 800x600x16 @ 60Hz.

Resolution/Color	60Hz	70Hz	72Hz	75Hz	85Hz
640x480x8	X	X	X	X	X
640x480x16	X	X	X	X	X
640x480x32	X	X	X	X	X
800x600x8	X	X	X	X	X
800x600x16	X	X	X	X	X
800x600x32	X	X	X	X	X
1024x768x8	X	X	X	X	X
1024x768x16	X	X	X	X	X
1024x768x32	X	X	X	X	X
1280x1024x8	X	X	X	X	X
1280x1024x16	X	X	X	X	X

Resolution/Color	60Hz	70Hz	72Hz	75Hz	85Hz
1280x1024x32	X				
1600x1200x8	X	X	X	X	
1600x1200x16	X	X	X	X	

If you set the display settings out of range, you must reset the terminal to factory defaults by rebooting the terminal and holding down the **F9** key until you see a window that says "Loading..." at the bottom. All configuration settings and connections will be lost when resetting the terminal to factory defaults.

ELO Touch

The ELO Touch Screen dialog box is used to enable or disable the cable connection. You can also calibrate the touch screen by clicking the **Align** button.

To open the ELO Touch Screen dialog box, double-click the **ELO Touch** icon in the Control Panel.

Global ICA Client Settings

The Global ICA Client Settings dialog box is used to configure ICA client settings used during ICA sessions.

To open the ICA Client Settings dialog box, double-click the **Global ICA Client Settings** icon in the Control Panel.

There are five tabs on the ICA Client Settings dialog box: **Hotkeys**, **Preferences**, **Server Location**, and **Firewall Settings**.

Hotkeys Tab

The **Hotkeys** tab is used to configure hotkeys that can be used during ICA sessions. Hotkeys are used to perform various functions.

You can assign the hotkeys used to perform a function by selecting the hotkey combinations from the drop-down list next to each function.

- The **Connection Status** hotkey invokes a message about the status of the connection.
- The **Close Session** hotkey disconnects the terminal from the server but does not actually close the session on the server. The session will continue to run on the server until the terminal operator logs off.
- The **Esc** hotkey performs the same function as the **Esc** key on a keyboard.
- The **CTRL-ALT-DEL** hotkey invokes the terminal Security dialog box.
- The **CTRL-ESC** hotkey displays the Remote Task list on WinFrame servers, or displays the Start menu on MetaFrame servers.
- The **ALT-ESC** hotkey cycles the focus through the minimized icons.
- The **ALT-TAB** hotkey cycles through open applications in sequential order.
- The **ALT-BACKTAB** hotkey also cycles through open applications sequentially, but in the opposite direction.

Preferences Tab

The **Preferences** tab is used to set color preferences during an ICA session.

The Preferences tab contains the following fields:

- **Serial Number**: Enter the serial number of the ICA Client software exactly as it appears on the serial number card. This is necessary when using the ICA Windows CE Client with certain products, such as WinFrame Host/Terminal. It is not necessary for MetaFrame servers.
- **Default Window Colors**: Select the color option for the ICA client. If the ICA server does not support 16-bit color, then 8-bit color will be used.
- **PNAgent:** Click the check box to enable PNAgent

Server Location Tab

The **Server Location** tab is used to view/add Citrix servers on the network that have ICA connections configured.

The **Server Location** tab contains the following fields and buttons:

- **Network protocol drop-down list**: Select the network protocol to use from this drop-down list located near the top of the tab.
- **Server address list**: Lists the server locations that have been entered.
- **Add button**: Click this button to add a server address.
- **Delete button**: Click this button to delete a server address.
- **Default List button**: Click this button to recall the previous server address list.
- **Server Group list**: Use this drop-down list to select whether the servers entered in the server address list belong to your Primary, Backup 1, or Backup 2 group.
- **Rename Group button**: Click this button to rename the selected server group.

Firewall Settings Tab

The **Firewall Settings** tab is used to set up a firewall by placing a proxy server between a server and a client.

In the **Proxy** section, select a protocol from the drop-down list then enter the proxy address and port.

In the **SSL/TLS Relay** section, enter the relay address and port for the Socket Security Layer (SSL) or Transport Layer Security (TLS) protocol.

Internet Options

The Internet Settings dialog box is used to configure Internet browser settings on the terminal.

To open the Internet Settings dialog box, double-click the **Internet Options** icon in the Control Panel.

The Internet Settings dialog box includes the following tabs:

- **General tab:** Used to enter start and search pages, set the cache size (as well as clear cache and history), and set the font size.
- **Connection tab:** Used to select LAN or autodial connections, and to enter proxy server settings.
- **Security tab:** Used to allow cookies, TLS 1.0 security, SSL 2.0 security, and/or SSL 3.0 security. There is also an option to warn you when switching across secure and insecure areas and an option that allows you to enable favorites.
- **Advanced tab:** Used to enable local browser window resizing, display images in pages, play sounds in pages, enable scripting, display a notification about every script error, and underline links.

Due to CE .NET architecture, proxy exceptions are not available.

JETCET PRINT 3.01

The JETCET PRINT Professional dialog box is used to set up the terminal for local browser printing.

To open the JETCET PRINT Professional dialog box, double-click the **JETCET PRINT 3.01** icon in the Control Panel.

Select a default printer and manufacturer model, set the appropriate print spooler options, and if printing serial choose either hardware or software for serial handshaking between the terminal and printer. Click the **Properties** button to configure the chosen printer's settings.

For more information, refer to the JETCET user's guide.

Keyboard

The Keyboard Properties dialog box is used to select a keyboard language and the keyboard character repeat parameters. Changes to the keyboard language apply locally as well as on the server side.

Drivers for the various languages do not transfer to the server; therefore, the drivers for the selected language must also be installed on the server side.

To open the Keyboard Properties dialog box, double-click the **Keyboard** icon in the Control Panel.

Repeat delay determines how quickly the same character displays on screen when typed more than once.

Repeat rate determines how quickly the same character displays on screen when the associated key is held down.

LPD Control

The LPD Control dialog box allows you to set the terminal up as a line printer (print server).

To open the LPD Control dialog box, double-click the **LPD Control** icon in the Control Panel.

HP Compaq t5300 thin client models do not have legacy ports. Therefore, the LPD Control program will not appear in the Control Panel for those systems.

To set the terminal up as a print server:

1. Select the **Enable Printer** check box.
2. Enter the **Printer Name** and **Network Port**.
3. Select the appropriate printer port from the drop-down list. If you select a ComPort, you have the option of configuring the serial port by clicking the **Configure** button and entering the appropriate parameters.
4. Select the **Send Form Feed** check box if form feeds are necessary. This is needed primarily for older printer technology.

You must enable the terminal's serial port in BIOS and in the Control Panel's Port Lock utility. You must also set up the application server for LPD printing.

Modems

The Modem Settings dialog box is used to access and modify settings for external serial modems.

To open the Modem Settings dialog box, double-click the **Modems** icon in the Control Panel

Refer to the modem device instructions for listings of modem "AT" commands available for the modem.

Mouse

The Mouse Properties dialog box is used to set the mouse double-click sensitivity for speed and physical distance between clicks.

To open the Mouse Properties dialog box, double-click the **Mouse** icon in the Control Panel.

Set the double-click sensitivity by double-clicking the grid icon, then test the setting by double-clicking the test icon.

Use the **Button Configuration** tab to configure for left handed use.

Network and Dial-up Connections

The Network and Dial-up Connections utility is used to configure connectivity between the terminal and the Internet, a network, or a computer.

To open the Network and Dial-up Connections utility, double-click the **Network and Dial-up Connection** icon in the Control Panel.

To make a new connection, double-click the **Make New Connection** icon, select the type of connection you want to make, then configure the connection as appropriate.

There are five connection types to choose from: Dial-up, Direct, VPN (PPTP), VPN (L2TP), or Ethernet (PPPoE).

Dial-Up Connection

A serial dial-up modem can be used with the thin client to access a dial-up server. With this method there are two ways to access the enterprise intranet:

- An enterprise dial-up server will connect directly to the enterprise intranet.
- An Internet Service Provider (ISP) dial-up server provides access to the Internet, from which the thin client must access an enterprise Point-to-Point Tunneling Protocol (PPTP) Virtual Private Network (VPN) server that connects to the enterprise intranet.

The dial-up server must be a Microsoft Remote Access Server or another server that supports industry-standard protocols.

Direct Connection

This type of connection is used to connect directly to another computer through the serial port on the terminal.

This option is only available to thin clients with serial ports.

Virtual Private Network (PPTP) Connection

Point-to-Point Tunneling Protocol (PPTP) is a network protocol that enables the secure transfer of data between a remote client (in this case the thin client) and an enterprise server environment by creating a VPN across TCP/IP-based data networks such as the Internet. It provides a password-protected path through the enterprise firewall to the enterprise server environment in which the network and session services required by the thin client reside.

An ISP must be available to provide access to the Internet. Any of the standard means of connecting to the ISP may be used, such as a dial-up modem, cable modem, and DSL modem.

The connection to the ISP must be established first, before contacting the enterprise PPTP VPN server. This includes dial-up access as well as direct access through the cable modem and DSL modem paths.

Virtual Private Network (L2TP) Connection

Layer Two Tunneling Protocol (L2TP) merges Microsoft's PPTP protocol with Cisco's Layer Two Forwarding (L2F) protocol. L2TP is basically the same as PPTP; the primary difference is that L2TP supports encryption.

PPP Over Ethernet (PPPoE) Connection

This is a connection from the thin client Ethernet port directly to the enterprise intranet. No additional hardware is required.

In this configuration all network services may be used, including the enterprise DHCP server. A DHCP server on the network may provide not only the terminal's IP address, but also the location of the file server containing the software updates.

Port Lock

The Port Lock dialog box allows you to enable or disable COM 1 and LPT ports.

Open the Port Lock dialog box by double-clicking the **Port Lock** icon in the Control Panel.

To enable (lock) a port, select the appropriate check box(es) and click **OK**.

HP Compaq t5300 thin client models do not have legacy ports. Therefore, the Port Lock program will not appear in the Control Panel for those systems.

RDP/ICA Printers

The RDP Printers dialog box is used to add local RDP printer configurations and modify existing RDP printer configurations. This enables the terminal to print from an RDP server session to a local printer.

To open the RDP Printers dialog box, double-click the **RDP Printers** icon in the Control Panel.

The RDP Printers dialog box contains an **Add Printer** icon and an icon for each configured printer.

Adding a Printer

To add a printer configuration from the Printers dialog box:

1. Double-click the **Add Printer** icon or select it and click the **Open** button. This invokes the Printer Wizard, which is used to configure a new printer.
2. In the first panel of the wizard, select the appropriate port that you want the printer to use and click the **Next** button.
3. In the next wizard panel, select the printer manufacturer and model. If the desired printer is not listed, select the **User Defined** check box. Click the **Next** button.

CAUTION: It is critical that the model name entered in step 3 matches EXACTLY with the model name of the driver installed on the terminal server. Otherwise, printing will fail.

4. The following panel appears only if you selected “Network” in step 2. In this panel, enter the network path for the printer. If the **User Defined** check box was selected in the previous wizard panel, also enter the manufacturer and model of the printer.
5. In the next wizard panel, enter a name for the printer then click the **Next** button.
6. In the next wizard panel, select whether you want to configure another printer then click the **Next** button.
7. After all printer configuration selections have successfully been completed, click the **Finish** button.
8. Connect to an RDP session, add the printer, and verify that it is working properly.

Modifying an Existing Printer Configuration

To modify an existing printer configuration in the Printers dialog box:

1. Double-click the desired printer icon or select the icon and click the **Properties** button. The Printer Properties dialog box is displayed.
2. Make any necessary modifications, then click the **OK** button to save the changes.

Regional Settings

The Regional Settings Properties dialog box is used to customize regional settings for the terminal. You can change the way Windows CE .NET displays numbers, currency amounts, times, and dates.

To open the Regional Settings Properties dialog box, double-click the **Regional Settings** icon in the Control Panel.

The Regional Settings Properties dialog box includes the following tabs:

- **Regional Settings tab:** Used to select an input locale, which determines how some programs format numbers, currency, time, and dates. The options available on the other tabs are determined by the selected region.
- **Number tab:** Used to change the way Windows displays numbers.
- **Currency tab:** Used to change the way Windows displays currency values.
- **Time tab:** Used to change the way Windows displays the time.
- **Date tab:** Used to change the way Windows displays the date.

Security

The Security dialog box is used to control various terminal functions related to security and terminal operator accounts.

To open the Security dialog box, double-click the **Security** icon in the Control Panel.

Enabling Security

Select the **Enable Security** check box on the **System** tab to enable terminal security. This forces a user to log in if the automatic login feature is not enabled. It also activates the **Enable Screen Lock** and **Automatic Log On** check boxes.

- Select **Enable Screen Lock** to allow the terminal to be locked through the **Ctrl**+**Alt**+**Delete** keyboard command.
- Select **Automatic Log On** to bypass the need for the user to enter a password to log in. This also activates the **Single Button Log On** check box and **Account** drop-down list.
  - Select **Single Button Log On** to enable the single button connect feature, which invokes a dialog box that requires the terminal operator to press a keyboard key or click the Logon button on the dialog box to log in.
  - In the **Account** field, select the account the terminal operator will automatically log in with. Refer to the next section, "Creating a User's Account," for information on creating a new account.

Select the **Enable Reset Hotkey** check box if you want to allow the terminal to be reset to factory defaults (registry and shortcuts) by pressing and holding the **F9** key during boot.

Creating a User's Account

To create a new security account for a terminal operator, select the **Users** tab on the **Security** dialog box. This tab lists all the operator accounts and shows which accounts are set up with Administrator security privileges and which accounts are enabled.

To create a new account:

1. Click the **Add** button on the **Users** tab. The Add New User dialog box is displayed.
2. Enter a name for the new user account in the **Name** field.
3. Enter a password for the new user in the **Password** field.
4. Enter the password again in the **Confirm Password** field.
5. Leave the **Account is disabled** check box unchecked unless you want to disable the account.
6. If you want to use the same Permissions assigned to an account that was previously created, click the **Set from Template** button. The Set from Template dialog box is displayed.

There are three default accounts already set up (Administrator, Guest, and User) that can be used as templates. You can also modify the Guest and User accounts and use the modified accounts as templates.

   a. Select the account type that you want to use as a template from the drop-down list of accounts in the **Based on** field.
   b. Click the **Apply** button to apply the selected template and return to the Add New User dialog box.

7. If you are not basing the Permissions on a template and want to choose which Permissions will be assigned to the new account, select the **Permissions** tab on the Add New User dialog box.
8. The **Permissions** tab contains check boxes for all the items available in the Control Panel plus a check box for access rights to Windows Explorer and a check box to give the user permission to change the password. Select the items in the list that you want to allow the user to access. If the user is an Administrator, select the **User is an Administrator** check box to provide the user with access to all the listed items.
9. After completing all the above steps, click the **OK** button on any of the Add New User tabs. You will return to the **Users** tab on the Security dialog box with the new account listed in the accounts list.

Refer to the previous section, "Enabling Security," to enable security for the new account.

To modify a current account, select the account from the list on the **Users** tab of the Security dialog box and click the **Modify** button, then make the appropriate modifications. Note that modifying the default User or Guest accounts will also change the template properties when using the **Set from Template** feature.

SNMP

The terminal can be managed through standard third-party simple network management protocol (SNMP) tools. The SNMP Network Administration dialog box is used to enter parameters required for SNMP management.

SNMP agents run in network elements and respond to Network Management Station (NMS) queries (GETs). SNMP provides a means to query all terminals assigned to a specific community. Each community should have a unique name and all members of a community have the same access privileges. A single terminal can be assigned to multiple communities.

Agents send unsolicited reports (traps) back to a specified IP address when a particular network activity occurs. Five traps are supported: cold start, warm start, authentication failure, link down, and link up.

To open the SNMP Network Administration dialog box, double-click the **SNMP** icon in the Control Panel.

1. On the **Agent** tab, enter the physical location of the terminal in the **Location** field.
2. Enter the name of the contact person responsible for the terminal in the **Contact** field.
3. Assign the terminal to a community by selecting a community from the **Community Name** drop-down list. If you want to create a new community, do the following:
   a. Click the **Add Community** button. The Community Configuration dialog is displayed.
   b. Enter a name for the new community and click the **OK** button.
4. To add a trap destination:
   a. Click the **Add** button. The SNMP Configuration dialog is displayed.
   b. Enter the host name or IP address of the NMS trap server and click the **OK** button.

5. Select the **Security** tab to add/change SNMP security settings.
6. To enable an authentication failure trap, make sure the **Enable Authentication Failure Trap** check box is selected.
7. To add an accepted community and assign rights to the community:
   a. Click the **Add** button in the **Accepted Community Names** section. The Community Configuration dialog is displayed.
   b. Enter the name of the community in the **Community Name** field.
   c. Select the rights to the community from the **Rights** drop-down list and click the **OK** button.
8. Select the hosts from which SNMP packets may be accepted. Choose either **Accept SNMP packets from any host** or **Accept SNMP packets from these hosts**. If you choose the latter, enter the host(s) as follows:
   a. Click the **Add** button in the SNMP packets section. The SNMP Configuration dialog is displayed.
   b. Enter the host name or IP address and click the **OK** button.
   c. Repeats steps a and b above to add as many hosts as necessary.
9. After entering all the necessary SNMP information, click the **OK** button in the upper right corner of the SNMP Network Administration dialog box.

SNTP Client

The SNTP GUI Applet allows administrators to synchronize the clocks on all thin clients. Administrators can set thin clients to automatically synchronize with an Internet time server or with a boot server.

Synchronization can occur only when your computer is connected to the Internet.

System

The System Properties dialog box is used to view terminal manufacturer and product information, network settings, and copyright information. You can also reset the terminal to the default factory settings, adjust the memory allocated for storage and running programs, enter a device name for network identification purposes, and configure the network card.

To open the System Properties dialog box, double-click the **System** icon in the Control Panel.

The System Properties dialog box includes the following tabs:

- **General tab:** Displays manufacturer and product information for the terminal. Includes a **Reset** button that can be used to reset the terminal to factory default property settings. It also includes **Export** and **Import** buttons to allow for easy registry import/export.
- **Memory tab:** Used to adjust memory allocation between memory for storage room and memory needed to run programs.
- **Network tab:** Used to enter a device name and description for the terminal that identifies the terminal across the network. You have the option of entering a name or accepting the name provided by the DHCP server. The default device name is "HP" followed by the MAC address. If the device is reset to factory defaults, the device name will revert to the factory default name.

  This tab also displays network settings and provides a **Configure Network Card** button that can be used to adjust the speed/duplex for the card.
- **Copyrights tab:** Displays copyright information for the terminal.

System Update

The System Upgrade define the means by which the image is upgraded on the terminal. The image can be upgraded directly from HP, by manually entering the FTP file server information for the server that contains the upgrade files, or by allowing the DHCP server to locate the FTP file server that contains the upgrade files.

Open the System Update dialog box by double-clicking the **System Update** icon in the Control Panel. The dialog box contains two tabs: **Direct from HP** and **FTP**.

Direct from HP Tab

The **Direct from HP** tab in the FTP Upgrade Settings dialog box is used to upgrade the terminal with the latest available image directly from Hewlett-Packard or restore the image currently installed on the terminal.

To upgrade or restore the image, select the appropriate radio button and press the **Continue** button.

CAUTION: DO NOT power off the terminal during the upgrade process. Turning off the power before the upgrade is complete may corrupt the flash memory on the terminal.

FTP Tab

The **FTP** tab in the System Update dialog box is used to automatically upgrade the image by having the DHCP server provide the location of the file server on which the upgrade files are located.

For more information on setting DHCP values, refer to the "DHCP Options" section in this chapter.

To upgrade the image via the DHCP server:

1. Select the **Use Values from DHCP Setting** tab on the System Update dialog box.
2. Enter the Server Name/IP.
3. Enter the Path and File name
4. Enter the Server Port.
5. Enter the user ID required by the FTP file server in the **User ID** field.
6. Enter the password required by the FTP file server in the **Password** field.

7. To automatically upgrade the image each time the terminal is restarted, select the **Automatically Check for Updates on Startup** check box.
8. Click the **Update** button to begin the update process.

CAUTION: DO NOT power off the terminal during the upgrade process. Turning off the power before the upgrade is complete may corrupt the flash memory on the terminal.

View or Remove Programs

The View or Remove Programs dialog box is used to view or remove software programs currently installed on the terminal.

To open the View or Remove Programs dialog box, double-click the **View or Remove Programs** icon in the Control Panel.

To remove a program, select the program from the list and click the **Remove** button.

Volumes & Sounds

The Volumes & Sounds Properties dialog box is used to adjust the volume setting and enable sounds for various events and conditions. You can also create custom sound schemes for various events.

To open the Volumes and Sounds Properties dialog box, double-click the **Volumes & Sounds** icon in the Control Panel.

6

HP Registry Import/Export Tool

Microsoft Windows CE .NET HP Image Refresh versions 4.21 and 4.22 include the Registry Import/Export tool, an HP engineered software technology that makes it significantly easier and more cost efficient for IT professionals to manage HP thin clients. Registry Import/Export allows thin client devices to inherent properties of other thin client devices.

IMPORTANT: Currently, Registry Import/Export between the HP Compaq t5510 thin client and the HP Compaq t5300 and t5500 thin clients is **not** supported.

IMPORTANT: Your source and target machine must have the same image with the same quantity of software add-ons. These software add-ons must be of the same revision. The Registry Import/Export Tool cannot upgrade or downgrade application versions.

Extracting the settings of one device and re-deploying the same settings to other devices reduces network congestion. Registry settings can be 100 to 10,000 times smaller than the entire image.

NOTE: The Import/Export process may take approximately two minutes to complete.

Clearing the Destination Registry

Before importing a new registry to a thin client, you must make sure that the destination machine has a clear registry. To clear the registry, drag and drop **CE_RegReset** from the **Job** window to the **Destination Computer**.

NOTE: This process will take two to three minutes to complete.

Exporting and Importing a Registry

To export a registry, perform the following steps:

1. Open the Deployment Server Console.
2. Select **CE_RegExport** from the Job window and drag and drop the Job to the source unit under the Computers window. This will copy the source computer's registry and prepare it to be imported.
3. Select **CE_RegImport** from the Job window and drag and drop the job to the destination computer under the Computers window. This will import the settings from the source computer to the destination computer.

NOTE: This process will take two to three minutes to complete.

Importing a Registry to Multiple Units

A single registry can be imported to multiple units. To import a registry to multiple units, perform the following steps:

1. Select **CE_RegExport** from the Job window and drag and drop the Job to the source unit under the Computers window. This will copy the source computer's registry and prepare it to be imported.
2. Select **CE_RegImport** from the Job window and drag and drop the job to "All Computers" under the Computers window. This will import the settings from the source computer to the entire network.

Exporting Registries from Multiple Units

While it is possible to export registries from multiple thin clients, it is important to ensure the registry files have different names. The export process uses a time stamp and saves the time stamp as part of the name for the saved file (for example, 051304840.reg, which is May 30, 2004 at 8:40). If you export multiple units at the same time, the registry file names will be identical. It is recommended that you capture each registry a minute apart in order to create distinct file names for each registry.